

**INTERNATIONAL SEARCH REPORT**

International application No.  
PCT/CA2005/000345

**Box No. II      Observations where certain claims were found unsearchable (Continuation of item 2 of the first sheet)**

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons :

1. ☒ Claim Nos. :    1 to 19

because they relate to subject matter not required to be searched by this Authority, namely :

Although claims 1 to 19 encompass a method of treatment of the human/animal body which this Authority is not obliged to search under Rule 39.1(iv) of the PCT, the search has been carried out based on the alleged effects of FRS3 referred to therein.

2. ☐ Claim Nos. :

because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically :

3. ☐ Claim Nos. :

because they are dependant claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

**Box No. III      Observations where unity of invention is lacking (Continuation of item 3 of first sheet)**

This International Searching Authority found multiple inventions in this international application, as follows :

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claim Nos. :
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claim Nos. :

**Remark on Protest** ☐ The additional search fees were accompanied by the applicant's protest.

☐ No protest accompanied the payment of additional search fees.

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PCT/CA2005/000345

### A. CLASSIFICATION OF SUBJECT MATTER

IPC(7): A61K 35/12; C12N 5/02; C12N 5/10; C12N 15/86

According to International Patent Classification (IPC) or to both national classification and IPC

### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC(7): A61K 35/12; C12N 5/02; C12N 5/10; C12N 15/86

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms used)

Delphion, Medline

Search terms: FRS3; SNT, FRS2beta; cell therapy; precursor cell; neural precursor cell; SEQ ID NOs: 1 and 2.

### C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No(s).
X	MCDUGALL, K. et al. Developmental expression patterns of the signaling adapters FRS-2 and FRS-3 during early embryogenesis. MECH DEV. May 2001, Vol. 103, No. 1-2, pages 145-148.	20-26
A		1-19
X	ZHOU, L. et al. Genomic organization and comparative sequence analysis of the mouse and human FRS2, FRS3 genes. MOL BIOL REP. March 2003, Vol. 30, No. 1, pages 15-25.	20-26
A		1-19
X	OSTENFELD T. et al. Recent Advances in Stem Cell Neurobiology. ADV TECH STAND NEUROSURG. 2003, Vol. 28, pages 3-89	4-19
A, P	GOTOH, N. et al. FRS2 family docking proteins with overlapping roles in activation of MAP kinase have distinct spatial-temporal patterns of expression of their transcripts. FEBS LETTERS April 2004, Vol. 564, pages 14 to 18	
A	RANZI, V. et al. The Signaling Adapters Fibroblast Growth Factor Receptor Substrate 2 and 3 Are Activated by the Thyroid TRK Oncoproteins. ENDOCRINOLOGY March 2003, Vol. 144, No. 3, pages 922-928.	

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

27 May 2005 (27-05-2005)

Date of mailing of the international search report

07 July 2005 (07-07-2005)

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PCT/CA2005/000345

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No(s).
A	XU, H., et al. Novel Recognition Motif on Fibroblast Growth Factor Receptor Mediates Direct Association and Activation of SNT Adapter Proteins. J BIOL CHEM. July 1998, Vol. 273, No. 27, pages 17987-17990.	